

THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY OR PRIVILEGE ARE CLAIMED ARE DEFINED AS FOLLOWS:

1 1. A method for testing a software test component, said method comprising the steps of:  
2       ascertaining a public interface of the software test component; and  
3       creating a wrapper component for the software test component by the substeps of  
4             defining a wrapper component interface to mirror the public interface of the  
5             software test component,  
6             defining the wrapper component to delegate to the software test component by  
7             including calls to the public interface of the software test component within the  
8             wrapper component,  
9             inserting test code within the wrapper component to permit capture and  
10            playback of user interaction with the public interface of the software test  
11            component, and  
12            enabling a test case to use the wrapper component interface to access the  
13            software test component and to generate test data from the test code in the  
14            wrapper component.

1 2. The method for testing a software test component according to Claim 1, wherein the software  
2 test component is an object-oriented software test component and wherein said step of ascertaining  
3 the public interface of the software test component further comprises interrogating a test component  
4 definition to determine public methods, constructor and associated parameters for the software test  
5 component.

1 3. The method for testing a software test component according to Claim 2, wherein the test  
2 component is a Java language class and said ascertaining step further comprises use of an  
3 introspection group of interfaces in a Java Bean specification.

1 4. The method for testing a software test component according to Claim 2, wherein the substep of  
2 defining a wrapper component interface further comprises defining public methods, constructors  
3 and associated parameters in the wrapper component to mirror the public methods, constructors and  
4 parameters determined for the software test component.

1 5. A computer program product for testing software components, the computer program product  
2 comprising a computer usable medium having computer readable code means embodied in said  
3 medium, comprising:

4 first code means for ascertaining a public interface of a software test component; and

5 second code means for creating a wrapper component for the software test component, said  
6 second code means comprising

7 code means for defining a wrapper component interface to mirror the public  
8 interface of the software test component,

9 code means for defining the wrapper component to delegate to the software test  
10 component by including calls to the public interface of the software test  
11 component within the wrapper component,

12 code means for inserting test code within the wrapper component to permit  
13 capture and playback of user interaction with the public interface of the  
14 software test component, and

15 code means for enabling a test case to use the wrapper component interface to  
16 access the software test component and to generate test data from the test code  
17 in the wrapper component.

1 6. A system in a computing environment for generation of a test environment for a software test  
2 component, said system comprising:

3 means for ascertaining a public interface of the software test component; and

4 means for creating a wrapper component for the software test component, said creating  
5 means including

6 means for defining a wrapper component interface to mirror the public interface of  
7 the software test component,

8 means for defining the wrapper component to delegate to the software test  
9 component by including calls to the public interface of the software test component  
10 within the wrapper component, and

11 means for making the wrapper component available to permit test code to be inserted  
12 within the wrapper component to permit capture and playback of user interaction  
13 with the public interface of the software test component and to permit a test case  
14 component to use the wrapper component interface to access the software test  
15 component and to generate test data from the test code in the wrapper component.

1 7. The system for generation of a test environment according to Claim 6, wherein the software test  
2 component is an object-oriented software test component and said means for ascertaining the public  
3 interface of the software test component further comprises means for interrogating a definition of  
4 the software test component to determine public methods, constructor and associated parameters for  
5 the software test component.

1 8. The system for generation of a test environment according to Claim 7, wherein the means for  
2 defining a wrapper component interface comprises means for defining public methods, constructors  
3 and associated parameters in the wrapper component to mirror the public methods, constructors and  
4 parameters ascertained for the software test component.

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